

IN THE CLAIMS

Please amend the claims as follows. Added text is underlined and deleted text is either struck through or shown in double enclosing brackets. Applicants aver that no new matter has been added.

1. (Currently Amended) A complexity indicator having instructions to evaluate the complexity of a user interface that has device class specific representations, each device class specific representation referring to a respective device class and having a respective layout component hierarchy; the complexity indicator comprising:

a library having complexity evaluation functions to determine complexity values of layout components of the respective layout component hierarchies, where each complexity evaluation function is associated with the layout component to which it is applied; [[and]]

an aggregator to aggregate, using one or more processors, the complexity values by device class according to the corresponding layout component hierarchy of the respective device class specific representation; and

a complexity display to visually present an aggregated complexity value for each device class, the aggregated complexity value comprising a numerical value.

2. (Previously Presented) The complexity indicator of claim 1, further comprising:

a transformer to transform the layout component hierarchy of each representation into a corresponding complexity evaluation hierarchy so that the association of each evaluation function with its respective layout component is redirected through the corresponding component of the respective complexity evaluation hierarchy and the evaluation function is applied to the corresponding component of the respective complexity evaluation hierarchy.

3. (Canceled)

4. (Currently Amended) The complexity indicator of claim [[3]] 1, wherein the complexity display has a drill down portion to visualize complexity values of layout components related to a selected device class.

5. (Previously Presented) The complexity indicator of claim 4 in combination with a tree-based outline editor to generate an outline view of the representation that corresponds to the selected device class configured to highlight a layout component that is selected in the complexity display for drill down purposes.

6. (Currently Amended) A method for complexity evaluation of a user interface, the method comprising:

receiving device class specific representations of the user interface, each device class specific representation referring to a respective device class;

determining complexity values of layout components of the device class specific representations by applying complexity evaluation functions that are associated with respective layout components; [[and]]

aggregating, using one or more processors, the complexity values by device class according to a corresponding layout component hierarchy of the respective device class specific representation; and

visually presenting an aggregated complexity value for each device class, the aggregated complexity value comprising a numerical value.

7. (Previously Presented) The method of claim 6, further comprising:

transforming the layout component hierarchy of each representation into a corresponding complexity evaluation hierarchy so that the association of each evaluation function with its respective layout component is redirected through the corresponding component of the respective complexity evaluation hierarchy and the evaluation function is applied to the corresponding component of the respective complexity evaluation hierarchy.

8. (Canceled)

9. (Currently Amended) The method of claim 6 [[8]], wherein the visually presenting visualizing comprises:

visualizing complexity values of layout components related to a selected device class in a drill down portion.

10. (Currently Amended) A computer system having at least one computing device configured to run an integrated development environment that includes a complexity indicator according to claim 1, the complexity indicator comprising:

a library having complexity evaluation functions to determine complexity values of layout components of the respective layout component hierarchies, where each complexity evaluation function is associated with the layout component to which it is applied;

an aggregator to aggregate the complexity values by device class according to the corresponding layout component hierarchy of the respective device class specific representation;
and

a complexity display to visually present an aggregated complexity value for each device class, the aggregated complexity value comprising a numerical value.

11. (Canceled)

12. (Currently Amended) A non-transitory machine-readable storage medium storing instructions which when executed by at least one processor provides a method comprising: a complexity indicator according to claim 1

receiving device class specific representations of the user interface, each device class specific representation referring to a respective device class;

determining complexity values of layout components of the device class specific representations by applying complexity evaluation functions that are associated with respective layout components; [[and]]

aggregating, using one or more processors, the complexity values by device class according to a corresponding layout component hierarchy of the respective device class specific representation; and

visually presenting an aggregated complexity value for each device class, the aggregated complexity value comprising a numerical value.

13. (New) The complexity indicator of claim 1, wherein the aggregator is to aggregate by propagating the complexity values of child nodes in the layout component hierarchy to a parent node.

14. (New) The complexity indicator of claim 13, wherein the aggregator is to overrule one or more of the propagating complexity values with a higher complexity value calculated for the parent node.

15. (New) The complexity indicator of claim 1, wherein the complexity values comprise numerical values.

16. (New) The complexity indicator of claim 1, wherein the complexity display is to visually present the aggregated complexity value using a graphical bar.

17. (New) The method of claim 6, wherein the aggregating comprises propagating the complexity values of child nodes in the layout component hierarchy to a parent node.

18. (New) The method of claim 17, further comprising overruling one or more of the propagating complexity values with a higher complexity value calculated for the parent node.
19. (New) The method of claim 6, wherein the complexity values comprise numerical values.
20. (New) The method of claim 6, wherein the visually presenting comprises presenting the aggregated complexity value using a graphical bar.